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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/761,865	01/21/2004		Philip Koneda	81044248	3149
33066	7590	02/23/2005		EXAMINER	
		RKANSKY	CORRIGAN, JAIME W		
PO BOX 557 MASHPEE, MA 02649				ART UNIT	PAPER NUMBER
		.		3748	
				DATE MAILED: 02/23/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>-</u>		Application No.	Applicant(s)		
		10/761,865	KONEDA ET AL.	KONEDA ET AL.	
	Office Action Summary	Examiner	Art Unit		
		Jaime W Corrigan	3748		
Period fo	The MAILING DATE of this communication apports. The ply	pears on the cover sh	eet with the correspondence ac	ddress	
THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ly within the statutory minimun will apply and will expire SIX (e, cause the application to bec	may a reply be timely filed n of thirty (30) days will be considered time 6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	ommunication.	
Status					
1)	Responsive to communication(s) filed on				
2a) <u></u>	This action is FINAL . 2b)⊠ This	s action is non-final.			
3)	Since this application is in condition for allowardlosed in accordance with the practice under the state of t	•	•	e merits is	
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o				
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) object drawing(s) be held in a ction is required if the dr	abeyance. See 37 CFR 1.85(a). awing(s) is objected to. See 37 C		
Priority L	ınder 35 U.S.C. § 119				
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Bureasee the attached detailed Office action for a list	ts have been receive ts have been receive ority documents have u (PCT Rule 17.2(a))	d. d in Application No been received in this Nationa).	l Stage	
Attachmen	t(s)			•	
	e of References Cited (PTO-892)		rview Summary (PTO-413)		
3) 🛛 Inform	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date 6-2-045-21-0412104.		er No(s)/Mail Date ice of Informal Patent Application (PT er:	O-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoeda et al. (PN 6,276,317).

Regarding claim 1 Yoeda discloses an electromagnet (See Figure 2 (90), (94)); an armature (See Figure 2 (88)) disposed adjacent to the electromagnetic; a fluid-containing chamber having: a first piston (See Figure 2 (74)) providing a first wall portion of the chamber; and a second piston (See Figure 2 (80)) providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion; and wherein the first piston (See Figure 2 (74)) is coupled to the armature (See Figure 2 (88)) and the second piston is coupled to a valve (See Figure 2 (66)).

Regarding claim 2 Yoeda discloses the valve is a valve of an internal combustion engine (See Abstract, Column 1 Lines 13-17).

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Regarding claim 3 Yoeda discloses the chamber (See Figure 2 (84)) has therein motor oil for the engine.

Regarding claim 4 Yoeda discloses a pair of electromagnets (See Figure 2 (90), (94)); an armature (See Figure 2 (88)) disposed in a magnetic field produced by the pair of electromagnets; a fluid-containing chamber having: a first piston (See Figure 2 (74)) providing a first wall portion of the chamber; and a second piston (See Figure 2 (80)) providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion; and wherein the first piston (See Figure 2 (74)) is coupled to the armature and the second piston (See Figure 2 (80)) is coupled to a valve (See Figure 2 (66)); a pair of springs (See Figure 2 (82), (78)), a first (See Figure 2 (82) one of the pair of springs is disposed to compress upon activation of a first one of the pair of electromagnets while a second one (See Figure 2 (78)) of such pair of springs is disposed to expand upon such activation of the first one of the pair of electromagnets, the first one (See Figure 2 (82) of the springs being held in compression until deactivation of the first one of the electromagnets, the second one (See Figure 2 (78)) of the pair of springs being disposed to compress after deactivation of the first one (See Figure 2 (90)) of the electromagnets and resulting expansion of the first one of the pair of springs while the first one of such pair of springs is disposed to thereby expand, the second one of the springs being held in compression until deactivation of the second one (See Figure 2 (94)) of the electromagnets.

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Regarding claim 5 Yoeda discloses including a valve (See Figure 2 (86)) disposed in the wall of the fluid-containing chamber for enabling such chamber to receive fluid when volume of such chamber is increased by activation of one (See Figure 2 (90)) of electromagnets to move one (See Figure 2 (74)) of the pistons in a first direction and to inhibit removal of such fluid from the chamber when volume of such chamber is decreased by activation of said one of the pistons in an opposite direction.

Regarding claim 6 Yoeda discloses a valve (See Figure 2 (86)) disposed in the wall of the fluid-containing chamber for enabling such chamber to receive fluid when volume of such chamber is increased by activation of one of electromagnets (See Figure 2 (90)) to move one of the pistons in a first direction and to inhibit removal of such fluid from the chamber when volume of such chamber is decreased by activation of said one of the pistons (See Figure 2 (74)) in an opposite direction.

Regarding claim 7 Yoeda discloses a second (See Figure 2 (86)) fluid-containing chamber providing a conduit for fluid therein to pass between an outer surface portion of the first (See Figure 2 (74)) piston and an outer surface portion of the second piston (See Figure 2 (80)) as the first and second pistons move in response to activation of the first (See Figure 2 (90)) and second (See Figure 2 (94)) ones of the pair of electromagnets.

Regarding claim 8 Yoeda discloses the fluid in the second chamber (See Figure 2 (86)) passes to the first-mentioned fluid-containing chamber through the valve.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hartke et al. (PN 6,371,064), Nishida et al. (PN 6,539,901) disclose similar valve actuators.

Any inquiry concerning this communication from the examiner should be directed to Examiner Jaime Corrigan whose Carlyle telephone number is (571) 272-4858. The examiner can normally be reached on Monday - Friday from 8:30 a.m. - 6:00 p.m. 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) -272-4859. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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(571) 272-37.00.

JC

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Jaime Corrigan

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

⁵atent Examiner

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February 21, 2005

THOMAS DENION
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700